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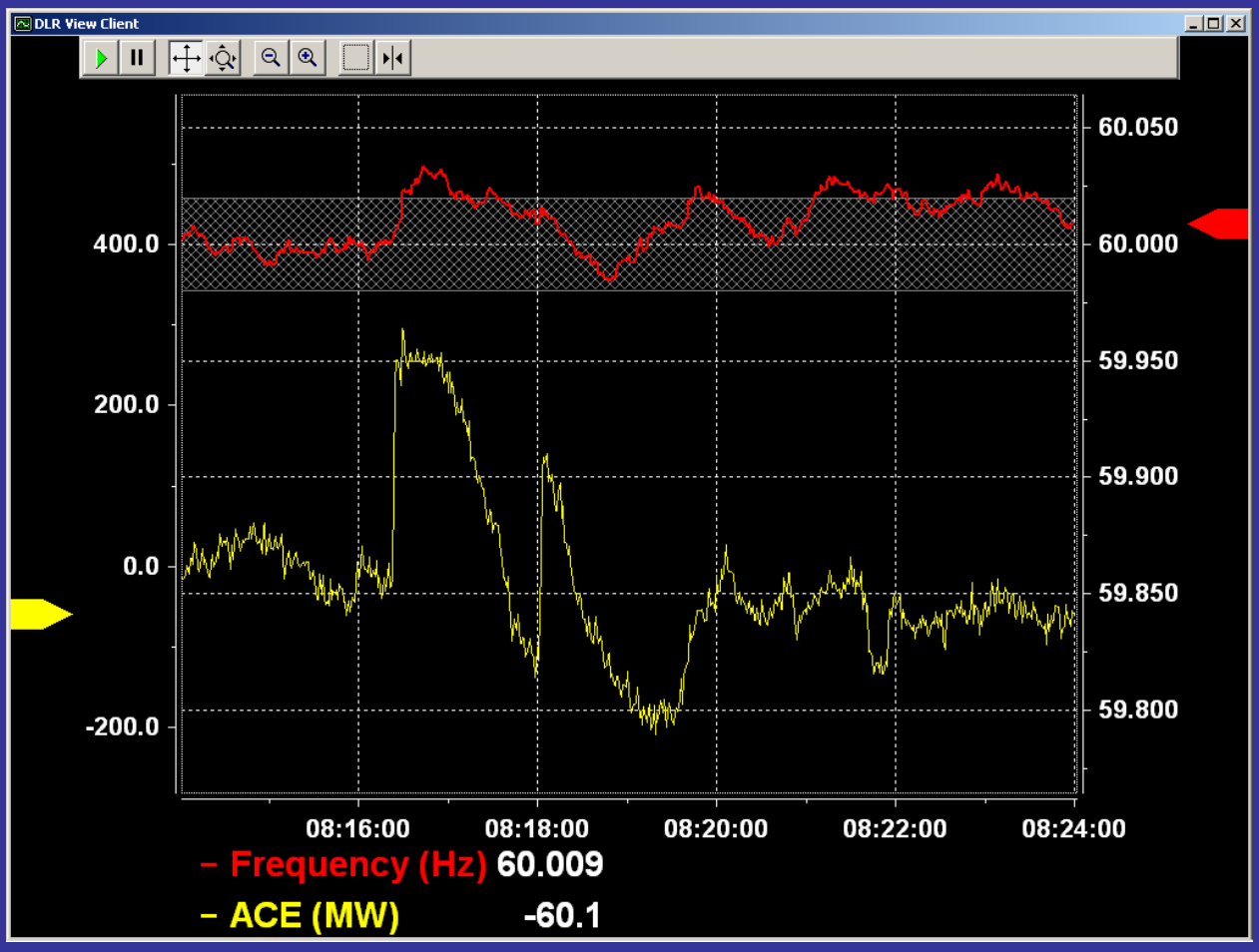
DLR View Client
User Manual



Version 2.0

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March 2005 Original version

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Chapter 1 Overview

1.1 Basic Functions

Starting the Program

Start the DLR View Client one of the following ways:

- Select *Start* > *Programs* > *Mauell Corporation* > *DLR View* > *Client* from the Start menu
- Double click a saved DLR-file
- Double click any shortcut to the DLR View Client previously placed on the desktop

Exiting the Program

Exit the DLR View Client one of the following ways:

- Click in the upper right corner of the window in the title bar, or
- Right click your mouse and select **Exit** from the context menu.

Minimizing a Window

Minimize the DLR View Client one of the following ways:

- Click in the upper right corner of the window in the title bar, or
- Right click your mouse and select **Minimize** from the context menu.

Adjusting a Window

Adjust the DLR View Client window size by first clicking the button in the title bar, then clicking the left mouse button on the window frame, pulling it to the desired size, and releasing the mouse.

1.2 Client Window

Figure 1 shows different sections of the DLR View Client window.

- The DLR View Client window displays the main diagram with the Time-Axis and different Y-Axes.
- The legend is located at the bottom of the screen displaying the current measured value. According to the measured value the appropriate meter shows the current position of the last result.
- The legend, title, and toolbar can be displayed or hidden.
- To compare values on different curves a data cursor highlights several measurement points for a particular point of time.
- Sources can be defined and configured through the applications context menu by choosing **Properties**, choosing a source, and clicking **Add.**

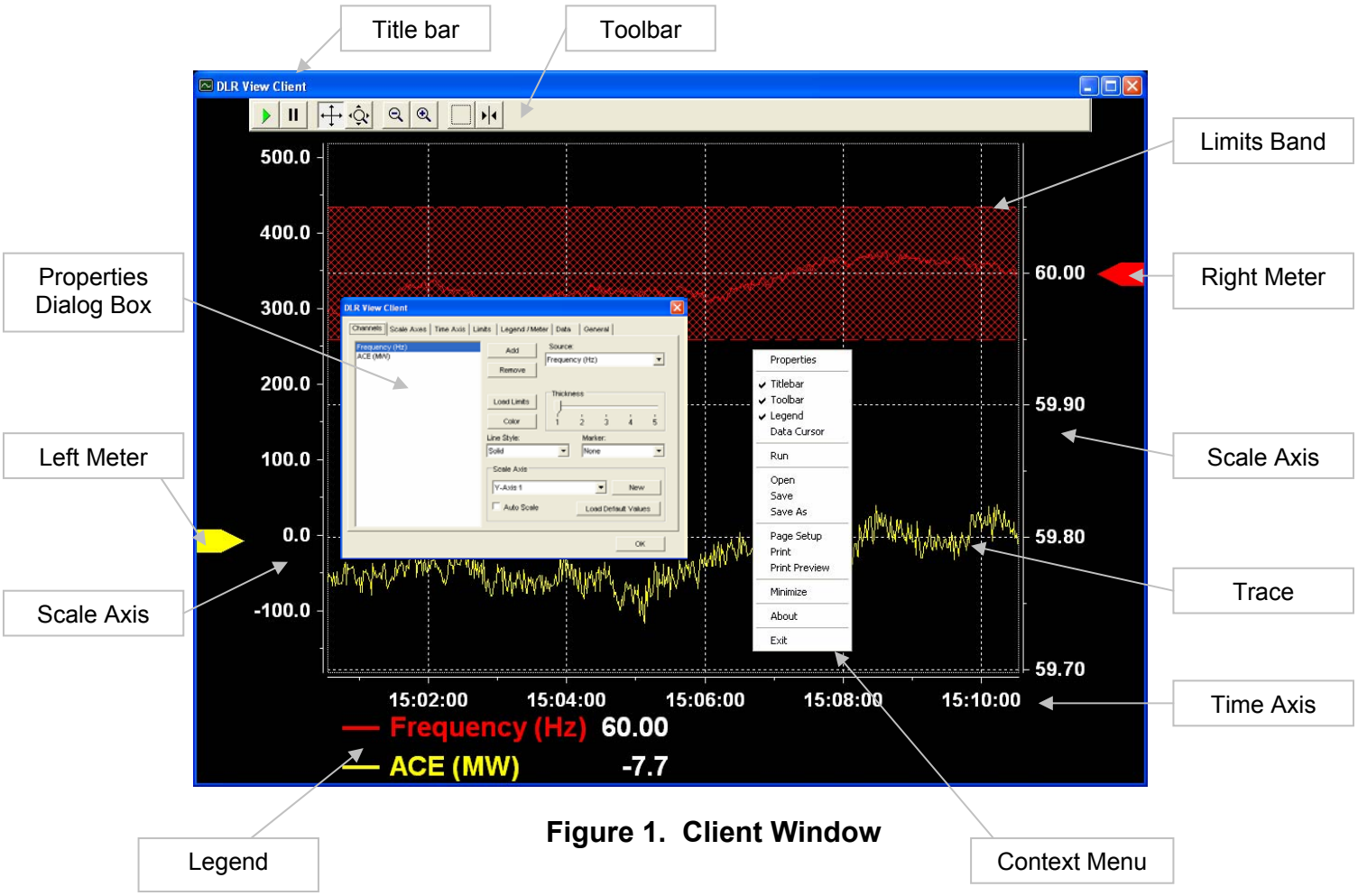

Figure 1. Client Window

Below are definitions of specific items highlighted in Figure 1:

Term	Definition
Title Bar	Horizontal bar at the top of the Client window. The title bar shows the name of the program.
Toolbar	The toolbar contain buttons and options to use to carry out specific command.
Client Properties Dialog Box	The Client Properties dialog box is used to customize the DLR View Client display.
Left & Right Meters	The Left and Right Meter can be used to display an instantaneous analog indication of the current value for the assigned source.
Scale Axis	The Scale Axis (or Y-Axis) is the user defined range in engineering units of the data being plotted.
Limits Band	A Limits Band is a user definable indication of the range of valid values for the associated source. Any data values plotted outside of a Limits Band are considered outside the normal range for the associated source.
Trace	A trace is a series of plotted data points tracking the data values for a source over the course of time represented in the Time Axis.
Time Axis	The Time Axis (or X-Axis) is the user defined range of time for the data being plotted.
Legend	The Legend identifies the sources that are displayed in the Client window.
Context Menu	The Context Menu is essentially a shortcut menu that includes commands that are commonly executed.

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Chapter 2 Context Menu

To activate the Context Menu, right mouse click once anywhere in the application.

2.1 Properties

To open the properties window, right mouse click anywhere in the application and choose **Properties** from the context menu. The properties window opens by default on the Channels tab the first time. Subsequently, the properties window will default to the last open tab when closed.

See Chapter 3 for additional information on the functions within the Properties window.

2.2 Titlebar

To hide or view the titlebar right click anywhere in the application and choose **Titlebar** from the context menu. A ✓ indicates the titlebar is visible.

2.3 Toolbar

To hide or view the toolbar right mouse click anywhere in the application and choose **Toolbar** from the context menu. A ✓ indicates the toolbar is visible.

Figure 2. Toolbar

The Toolbar is located at the top of the main window, when activated.

See Chapter 4 for specific functions of the Toolbar.

2.4 Data Cursor

To activate the Data Cursor, right mouse click anywhere in the application and chose **Data Cursor** from the context menu. A ✓ indicates the Data Cursor is active. The Data Cursor can also be activated by the button in the toolbar.

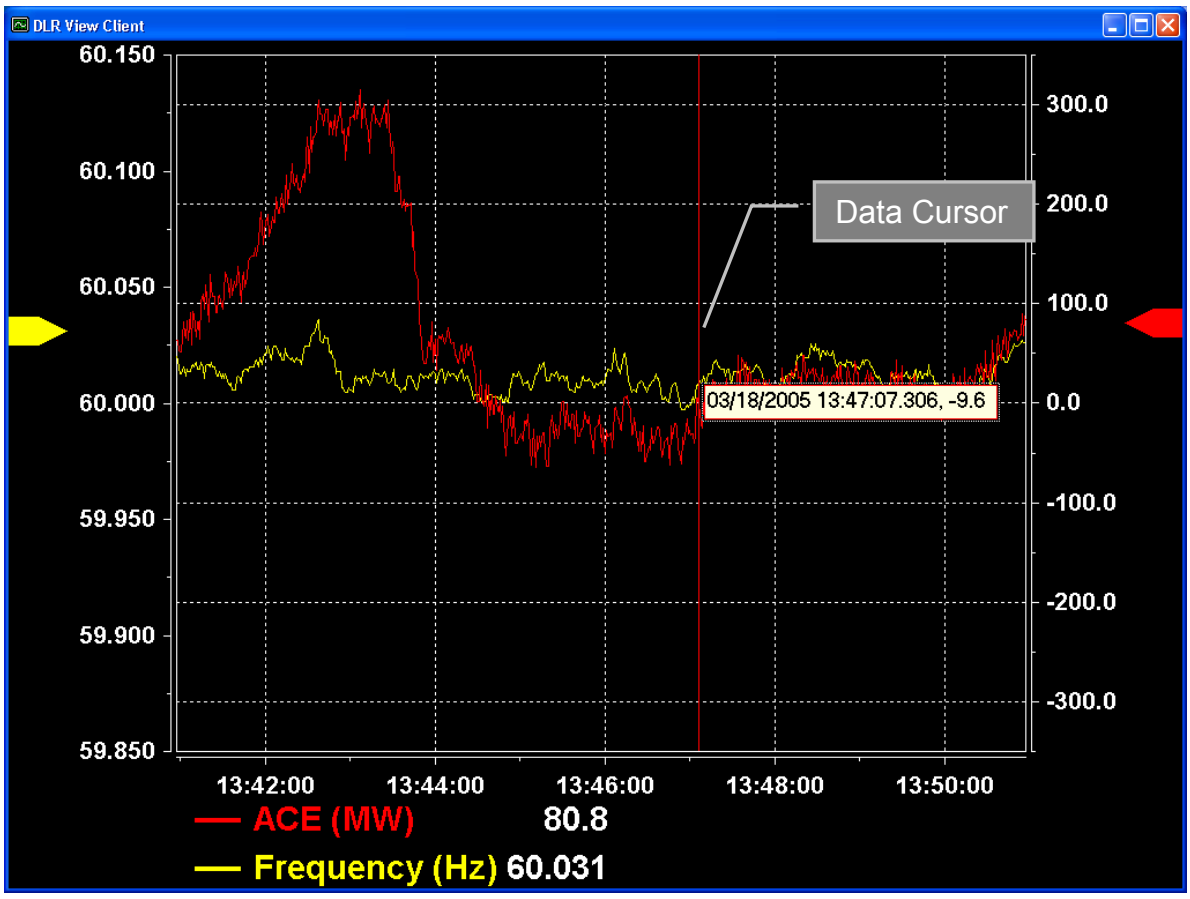

Figure 3. Data Cursor

Once activated, a vertical line appears in the diagram, but shows only “No Channel”. To display the desired value and time, click on the appropriate channel in the legend when the cursor is activated. Otherwise the Data Cursor will not show any value. See section 3.1 for information on adding channels.

The Data Cursor display shows date, time down to 1/1000 sec and the matching value (i.e. 09/08/2004 10:20:20.875, 68.85.). Click the left mouse button on the Data Cursor and pull it left or right to slide and display the desired value.

To position the Data Cursor, click the value field and pull it up and down. To select the values of the current channel point-by-point, use the right or left arrow key on the keyboard.

ADVICE: Additional setting options are available with DLR View Configuration Utility.

2.5 Run

Any time the client window stops plotting the current real time data, select run to resume normal plotting. This is especially useful whenever the time axis is scrolled or the data cursor is used and you wish to resume plotting the most recent data.

2.6 Open

To open earlier saved settings right click anywhere in the application and choose **Open** from the context menu. Choose the desired file and click **Open**.

Installing the Client makes the saved DLR-Files executable in Windows. If it is desired to open a DLR-file the Client does not have to be open. A double-click on the saved file opens the Client with its respective saved settings.

2.7 Save

Once all properties are set they can and should be saved. To save the current settings, right mouse click anywhere in the application and chose **Save** from the context menu. This will overwrite any previously saved properties in the current file.

2.8 Save As

To save the active file with a different name or location, right click anywhere in the application and choose **Save As** from the context menu. When the Save As window opens, type the desired file name in the File name box and choose a folder or location to save. Click the **Save** button

2.9 Page Setup

To view the page set-up for printing purposes, right mouse click anywhere in the application and chose **Page Setup** from the context menu.

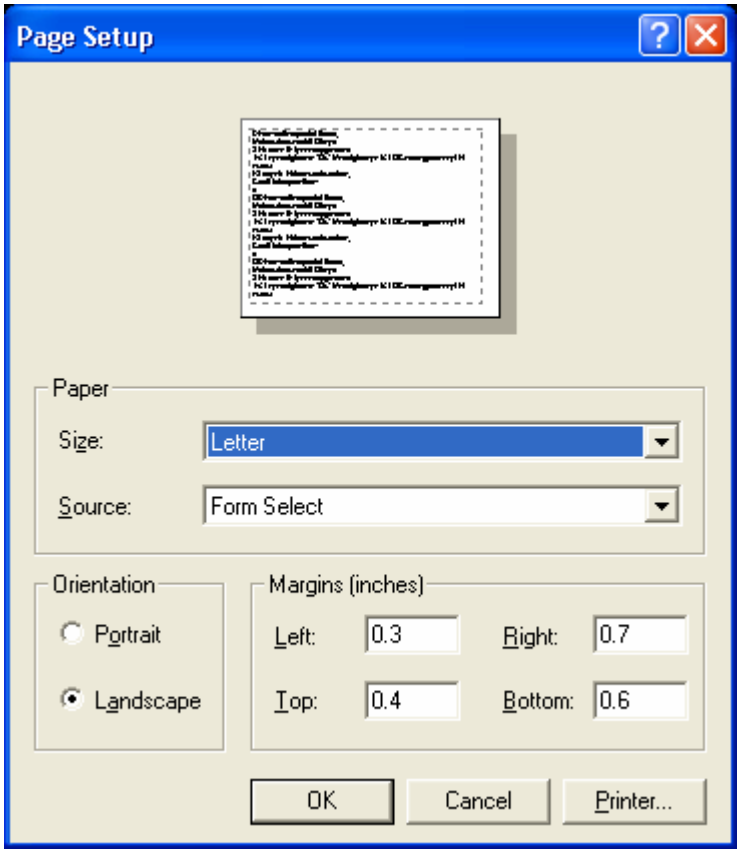

Figure 4. Print Page Setup

The page setup window allows users to change the paper size and source, orientation, and margins of the page.

2.10 Print

Print opens the Printer Settings. Clicking **OK** will print out the current diagram displayed.

ADVISE: It is often advisable when printing to invert the background color, grid, time axis, and scale axis color when using a black or dark background. Also darkening the colors of bright curves will aid in readability when printing.

2.11 Print Preview

To preview the print and page set up settings, right mouse click anywhere in the application and chose **Print Preview** from the context menu.

Figure 5. Print Preview

2.12 Minimize

To minimize the DLR View Client window, right mouse click anywhere in the application and chose **Minimize** from the context menu.

The DLR Client can also be minimized by clicking _ in the upper right corner of the window in the title bar.

2.13 About

To view the DLR View Client details (version, serial number), right mouse click anywhere in the application and chose **About** from the context menu.

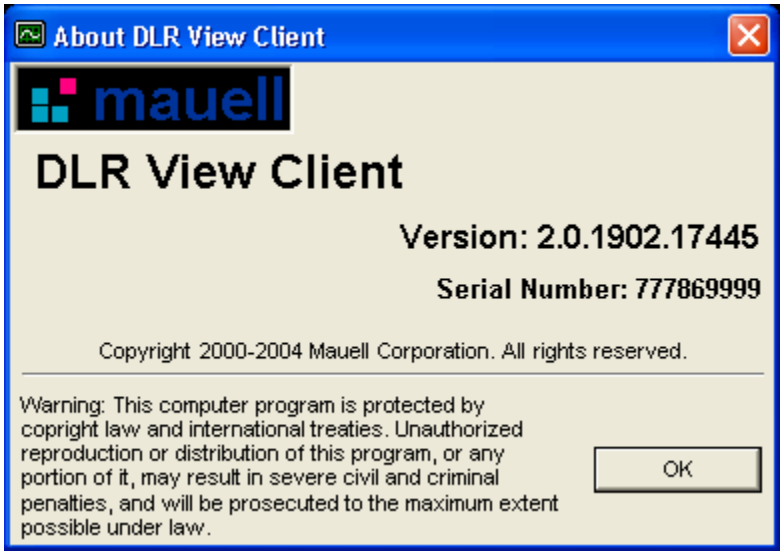
About DLR View Client
mauell
DLR View Client
Version: 2.0.1902.17445
Serial Number: 777869999
Copyright 2000-2004 Mauell Corporation. All rights reserved.
Warning: This computer program is protected by copright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
OK

Figure 6. About

2.14 Exit

To exit the DLR View Client window, right mouse click anywhere in the application and chose **Exit** from the context menu.

The DLR Client can also be exited by clicking in the upper right corner of the window in the title bar.

Chapter 3 Properties

To activate the Properties window, click the right muse button once anywhere in the application and choose **Properties** from the context menu.

3.1 Channels Tab

The Channels tab allows users to select sources as well as alter their appearance. Channels are modified in the following way:

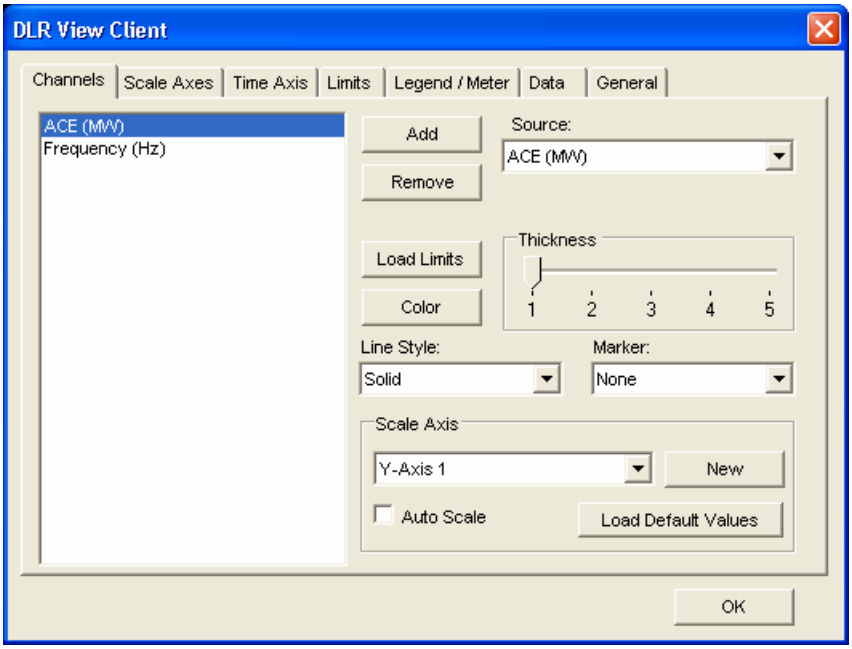

Figure 7. Channels Tab

INITIAL CHANNEL SET-UP
When the DLR View Client is initially run, the application automatically creates the first channel; however, a source is not selected for this channel and must be done so by the user. To associate a source with this initial channel click on the Source drop down menu and select the desired source.

ADDING ADDITIONAL CHANNELS
To add additional channels click the **Add** button and then select a source for that newly added channel through the Source drop down menu.

NOTE: The added channel will be associated to the same Y-Axis that was initially created. To assign a new Y-Axis to the added channel, see *Creating a New Y-Axis* section below

REMOVING A CHANNEL
To remove a channel, select the desired channel and click the **Remove** button.

MODIFYING A CHANNEL
NOTE: Any modification to a channel can only be accomplished when the specific channel is highlighted.

Property	
Color	Use the Color button to open a color menu and choose the color for the trace as desired, click **ok**
Thickness	Modify the thickness of the trace by dragging the Thickness arrow to select a different line thickness.
Line Style	Alter the style of the trace by using the Line Style drop down menu and selecting a different line style. Line style changes will only be noticeable when the line thickness is set at 1.
Marker	Choose a marker if desired for each measured value with the Marker drop down menu.

LOADING LIMITS
Default limits can be pre-defined for each source using the DLR View Configuration Utility. Click the **Load Limits** button to load any pre-defined limits. Any pre-defined limits loaded with the Load Limits button will be added to the limits list on the Limits tab.

CREATING A NEW Y-AXIS
When the DLR View Client is initially open and a source is selected for the initial channel, the application automatically creates the Y-Axis and associates it with this channel. When creating a second channel and source, by default this second channel is associated with the same Y-Axis that was originally created. In essence two separate channels have been created, each associated with their respective sources, yet both associated with the same Y-Axis.

The Scale Axis section allows the user to create a Y-Axis for the new channel independent from the first. To create a separate Y-Axis highlight the desired channel and click on the **New** button. The New button will:

1. create a new Y-Axis and add it to the Y-Axis list,
2. associate new Y-Axis with the currently highlighted channel, and
3. load the appropriate default value for the Y-Axis for that source.

NOTE: Choose the Load Default Values button for the most common scale allocation.

3.2 Scale Axes Tab

The Scale Axes tab allows users to set up the style and scale of all axes in the diagram. Y-Axis 1 is always visible, is not removable, and is connected to the diagram grid. Below is information on setting specific properties.

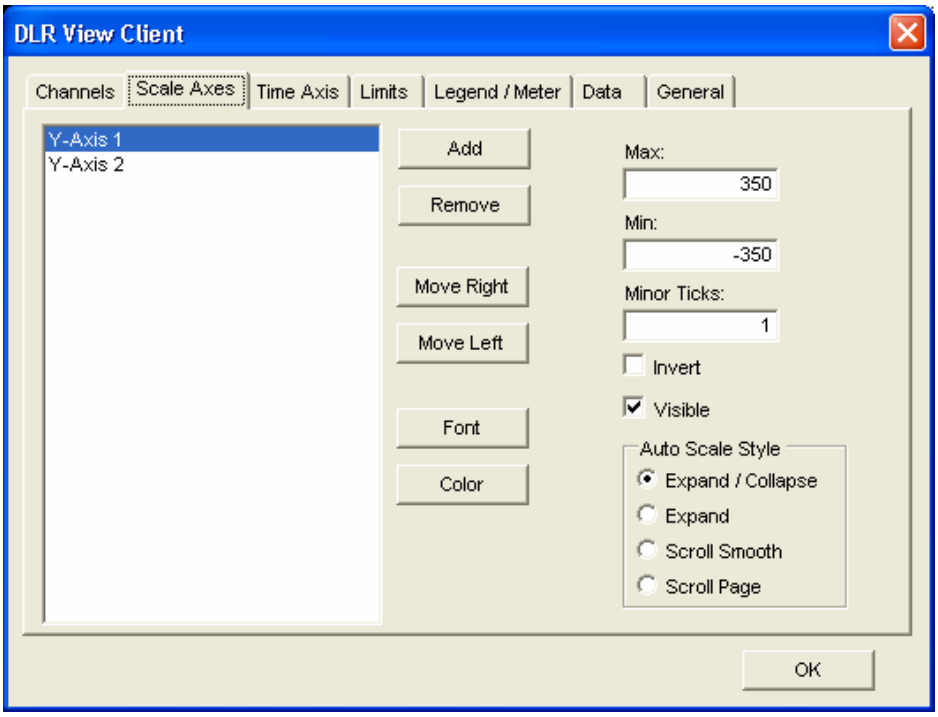

Figure 8. Scale Axes

ADDING A NEW AXIS

Add a new axis to the diagram with the **Add** button at the top of the scale axis sheet.

To associate the added axis to a new channel, go back to the channels sheet, add a new channel and choose the new axis in the Y-axis drop down menu while the channel is highlighted.

REMOVING AN AXIS

Click the **Remove** button to delete a highlighted axis. You cannot remove any Y-Axis that is currently in use by a channel.

MODIFYING THE SCALE

Property	
Scale	The scale of the axis can be changed by manually highlighting the Max and Min boxes for the current session. The Client window displays the desired scale and saves it as default settings for the current session (i.e. Toolbar > Resume all).
Tick Marks	To set the number of ticks between two major ticks in the main window, change the Minor Ticks value in its textbox.
Invert	To invert the scale and curve, check the **Invert** check box.
Font	To change the font style and the color of the current scale, choose the Font Style and the Color buttons as appropriate.
Hide/Unhide	A checked Visible check box indicates the scale axis is visible. To hide the scale axis, uncheck the **Visible** check box.
Move	To move the current axis to the desired side of the diagram, choose the Move Right or Move Left buttons as appropriate.
Scale Style	The Auto Scale Style boxed area allows you to choose between four separate means of displaying scale axis. Expand/Collapse is the default. It allows the scale axis to expand and contract as needed. Expand allows the scale axis to only expand as needed. Scroll Smooth causes the scale axis to scroll up or down as needed. Scroll Page causes the scale axis to scroll by page.

3.3 Time Axis Tab

By utilizing the Time Axis tab, the settings for the time axis can be adjusted.

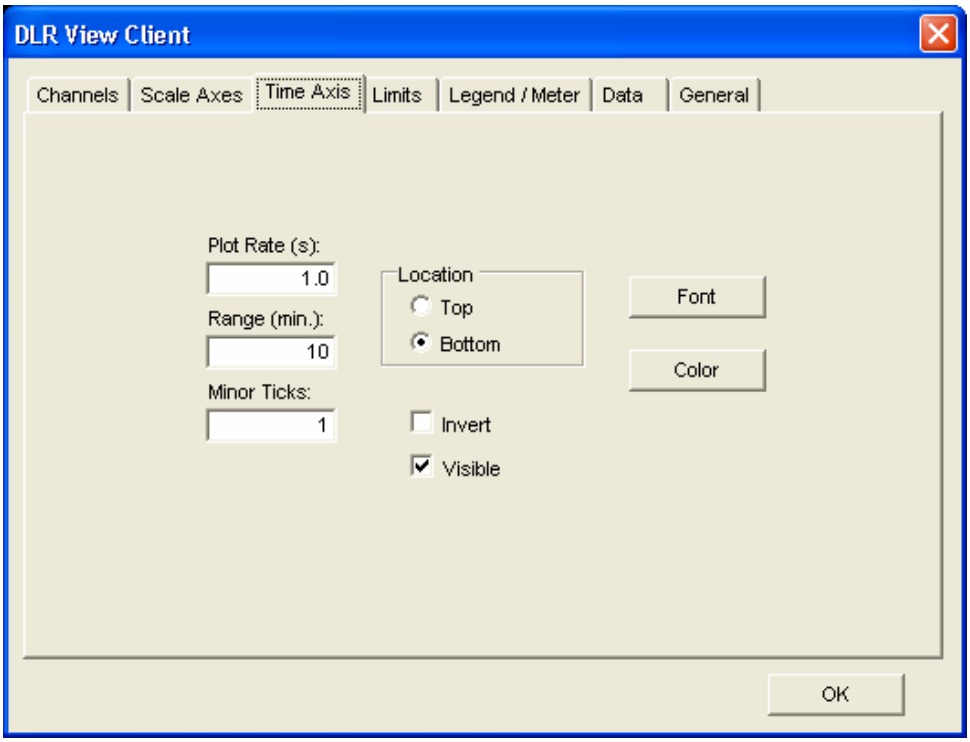

Figure 9. Time Axis

MODIFYING THE TIME AXIS

Property	
Location	The Time Axis can be placed to the top or to the bottom of the client window by choosing the appropriate radio button.
Invert	To invert the Time Scale click the Invert check box.
Hide/Unhide	A checked Visible check box indicates the scale axis is visible. To hide the scale axis, uncheck the **Visible** check box.
Font	The font settings can be changed with their respective buttons.
Color	Use the Color button to open a color menu, click **ok**
Plot Rate	The Plot Rate can be adjusted by filling in the time range.
Ticks	To set the number of ticks between two major ticks in the main window, change the Minor Ticks value in its input box.

3.4 Limits

Within the Limits tab users have the ability to edit any default limit values as well as set limit values where none have been previously defined.

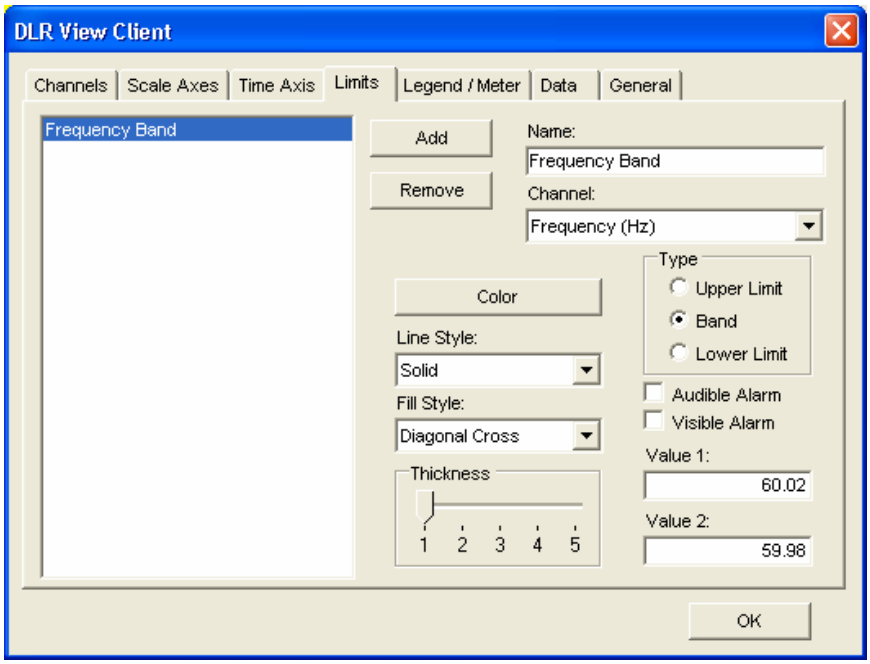

Figure 10. Limits

ADDING A LIMIT

To add a Limit click the **Add** button. This added Limit will automatically be predefined as Limit 1.

MODIFYING A LIMIT

Property	
Name	Change the name of a limit by changing the text in the Name field.
Type	The type of limit can be selected by clicking the appropriate radio button in the Type field.
Value	The value of a limit can be set in the Value 1 field.
Alarms	An Audible or Visible alarm can be chosen by appropriate box.
Color	Use the Color button to open a color menu and choose the color for the limit, click **ok**.
Line Style	Alter the style of the limir by using the Line Style drop down menu and selecting a different line style.

Thickness	Modify the thickness of the limit by dragging the Thickness arrow to select a different line thickness.
Fill	Fill Style (only in Band mode) is used to select how the area between Value 1 and Value 2 is represented.

REMOVING A LIMIT

The Remove button allows removal of the selected limit.

3.5 Legend/Meter Tab

The Legend/Meter tab contains the setup options for the Legend and the Meters. The legend, left meter, and right meter can be hidden or made visible using their respective Visible check box's.

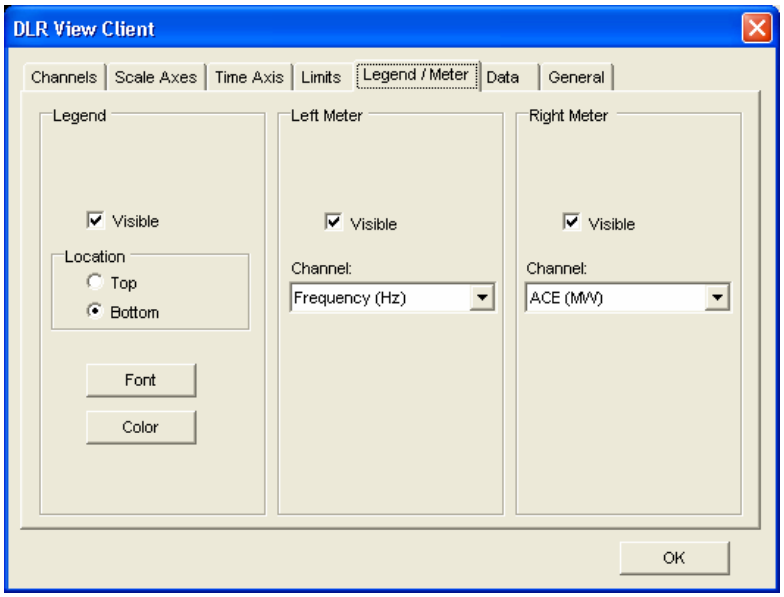

Figure 11. Legend/Meter

MODIFYING THE LEGEND

Property	
Location	The Legend can be moved either to the bottom or to the top by clicking the appropriate radio button in the Location box.
Color	The Color settings of the legend can be changed by clinking on the Color button. The Color button effects only the Legend characters that are numeric. To modify the color of the Legend characters that are text one must use the Color button on the Channels tab. The color of the Legend characters that are text and the color of the actual trace are always identical.
Font	The Font settings of the legend can be changed by clinking on the Font button. The Font button affects all the Legend characters, both text and numeric values.

MODIFYING A METER

The right and left meter displays the last received measurement value corresponding to the scale level of its trace. The channel of the meter can be chosen with the drop down menu in each channel.

3.6 Data Tab

The Data tab allows the use to view historic or current data to compare measurement values.

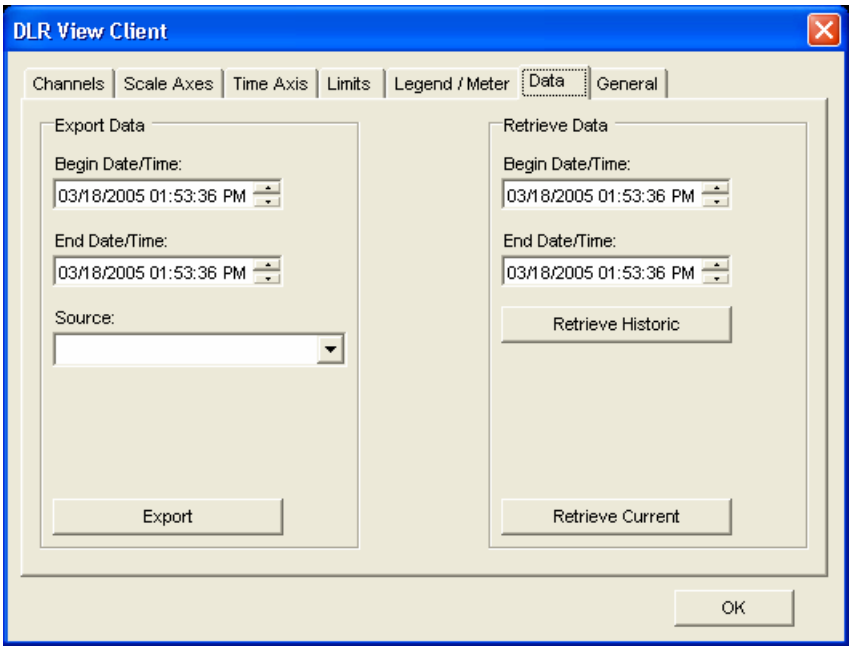

Figure 12. Data

VIEWING HISTORIC DATA
Fill in the desired Begin Date/Time, and click **Retrieve Historic** to access any stored historic data and display it on the screen.

VIEWING CURRENT DATA
For the current data choose **Retrieve Current**. This starts the permanent illustration on the screen and the two date fields will be highlighted in grey and inactive.

EXPORTING DATA
To export data, fill in the desired Begin Date/Time, choose a source whose date you want to export and click **Export**. An Export Data window will open and you can save the exported file in two different data types. In the save as type menu choose Comma Separated Values (.csv) or Report (.rpt) for Tab separated values export.

ADVICE: The file name should contain the channel name and eventually the time range.

The exported file includes two columns with the time/date and value of the appropriate channel. The left time/date column contains the Microsoft time code. The number in front of the point stands for day, month and year. The number behind the point sets the time.

To show the date or time, open and import the file to Excel and change the formatting of the cells in column A to a date or time style. All information in one column can be shown by highlighting the column and inserting the character combination “mm/dd/yyyy h:mm:ss.000 AM/PM” into *Format* > *Cell…* > *Category* > *Custom* > *Type* in MS Excel.

3.7 General Tab

The general sheet shows the general settings of the display. The Server box shows the Hostname/IP of the currently installed server.

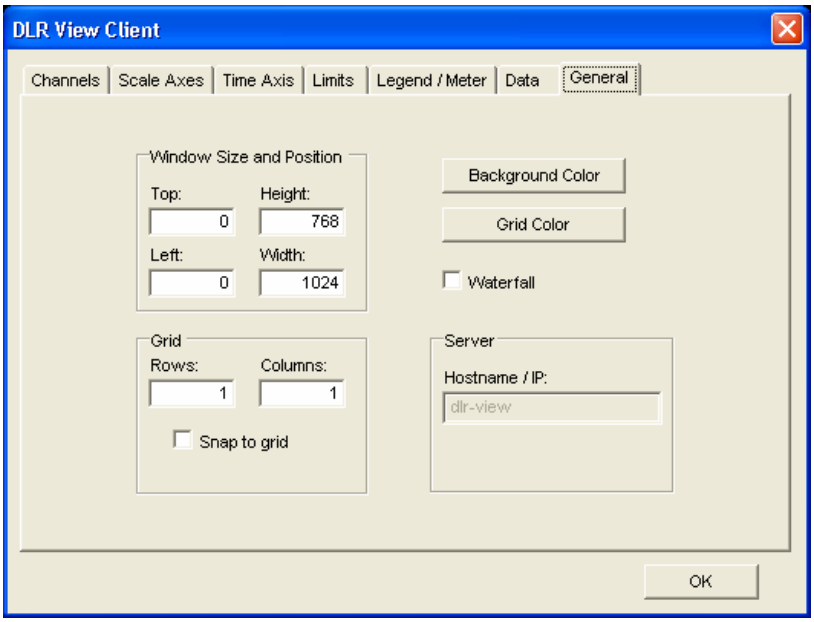

Figure 13. General

MODIFYING GENERAL SETTINGS

Property	
Background Color	The background color can be changed by clicking on the **Background Color** button and choosing the desired color from list.
Grid Color	The grid color can be changed by clicking on the **Grid Color** button and choosing the desired color from list.
Waterfall	To display a reverse x & y axis (similar to an endless paper print) click the Waterfall checkbox.

CHANGING THE WINDOW SIZE AND POSITION

To change the size and position of the window, fill in the desired values under Window Size and Position to change the attributes. This feature is analogical to the push-and-pull-function to change the window size.

The Grid box allows you to set up your main window size adapted to the screen size; e.g.: Choose 2 Rows and 2 Columns, than the screen will be divided into 4 evenly divided parts. The main window will take a quarter of the screen size when you activate this function with a check mark at Snap to grid.

The window size can only be the entire screen, half or a quarter of the screen. This application supports displaying on separate video walls, screens or cubes.

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Chapter 4 Toolbar

To view the Toolbar, click the right muse button once anywhere in the application and choose **Toolbar** from the context menu.

By using the toolbar you can control the most common features in the main window:

4.1 Display Control

Resume All (Tracking): Resume all or Run can be accessed either with the Toolbar button or in the Client Context menu (Run). It runs and shows the current data recording.

Pause All (Tracking): Click to pause displaying the current Data

4.2 Temporary View Controls

Zoom (Axes): Activate this feature with a left mouse click. Click on the diagram or the axes you want to zoom, hold the left mouse button and move the mouse (up/down or left/right) until the axis scale has the right size. This feature changes the diagram area only temporarily.

Scroll (Axes): Activate this button with a left mouse click. Click on the diagram or the axis you want to scroll, hold the left mouse button and move the mouse in the desired direction.

Another possibility to change from zoom to scroll mode is to hit Ctrl on the keyboard while scrolling the mouse-wheel or clicking the left mouse button on the selected diagram or the desired and selected axis. Furthermore you can pull while clicking the left mouse button on the axis or the diagram. Pressing the arrow keys while a axis is active (to activate an axis, click it to highlight it with a white frame) scrolls or zooms the axis, depending on, what function is active in the toolbar.

Zoom out all axes: Click this button to scale up the entire diagram.

Zoom in all axes: Click this button to downsize the entire diagram.

Zoom box: Activate this button to enlarge a certain part of the diagram. Click the left mouse button on the diagram and hold it. Pull a rectangle and release the left mouse button. The feature will enlarge the rectangle fitting in the main window.

Run or resets all temporary changes to default or earlier in the Properties Menu (Time Axes/Scale Axis) entered changes. (i.e.: Scale Axis / Time Axis)

4.3 Data Cursor

See chapter 2.4 **Data Cursor**

Even if the Toolbar is invisible, the temporarily view control settings and the Data Cursor are usable in the current Client session if activated earlier.

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Figures

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Appendix I - Software Warranty and Special Provisions

Limited Warranty

Limited Warranty. Mauell Corporation (MAUELL) warrants that the software, as delivered, will perform in accordance with the accompanying written materials for a period of ninety (90) days from the date of sale, unless otherwise agreed to in writing by MAUELL. Any implied warranties on the software are limited to ninety (90) days.

Customer Remedies. MAUELL's entire liability and the customer's exclusive remedy shall be, at MAUELL's discretion, either (a) repair or replacement of the software that does not meet this Limited Warranty and which is returned to MAUELL with a copy of customer invoice or purchase order number, or (b) refund of the price paid. This Limited Warranty is void if failure of the software has resulted from accident, abuse, or misapplication. Any replacement software will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer.

No Other Warranties. To the maximum extent permitted by applicable law, MAUELL disclaims all other warranties, either expressed or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with regard to the software and the accompanying written materials.

No Liability for Consequential Damages. To the maximum extent permitted by applicable law, in no event shall MAUELL or its suppliers be liable for any damages whatsoever (including without limitation, special, incidental, consequential, or indirect damages for personal injury, loss of business, profits, business interruption, loss of business information, or any other pecuniary loss) arising out of the use of or inability to use this product, even if MAUELL has been advised of the possibility of such damages. In any case, MAUELL's entire liability under any provision of this agreement shall be limited to the amount actually paid by customer for the software.

Warranty

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Appendix II
License Agreement

Appendix II - Perpetual Software License Agreement

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